High Definition system

VEGA® X7

HD system
Fully featured split system with embedded HD inputs and outputs

Highest Quality
Crystal clear audio and superior video quality at 4 Mbps

Enhances Collaboration
Built-in MCU connects up to 9 sites with Continuous Presence and embedded PowerPoint® presentations

Vega® X7 is a high-performance system at the cutting-edge of set-top technology.
It is ideal for medium and large-sized videoconferencing sessions that require HD audio and video quality.

Native HD system
HD is not just technology, it's a concept embracing Video, Voice and Content aiming at improving comprehension and productivity.
Vega X7 is the Aethra solution specifically designed and projected for High Definition.

Supports multiple connectivity
Available in several versions: for connection up to 384 Kbps (512 kbps with optional XLNA) over ISDN BRI and 4 Mbps over IP.

Simultaneous Dual-Stream video
Convenient XGA inputs and outputs provide one-step PC plug-in for simultaneous dual-stream video and live PC presentation with enhanced images.

Easy to configure
Flexible, simple architecture enables easy re-configure of the system. Ready to upgrade simply by adding different cards.

Customizable Graphic User Interface
The user is able to choose layouts and colours from a variety of alternatives.

VEGA® X7

Technical Specifications

Supported Standards
- ITU-T H.320 — ISDN
- ITU-T H.323 — IP networks
- IETF-SIP (RFC3261) — IP networks
- PPPoE
- Video — H.261, H.263++, H.264 H.239, H.241
- Audio — G.711, G.728, G.722, G.722.1, G.722.1 Annex C, MPEG4 AAC-LD
- Data — T.120
- LDAP — H.350
- MCU compatibility — H.243, H.231

Transmission
- Bit rate 56 kbps ÷ 512 kbps over ISDN BRI (*)(**)
  64 kbps ÷ 4 Mbps over IP (H323/SIP)
  64 kbps ÷ 4 Mbps over IP (H323/SIP)
  Asymmetric rates
- Simultaneous video motion coding and PC presentations from the XGA input
  * with external XLNA module
  ** 768 BRI, PRI, Leased Network connections available on 3Q2007

Video
- Frame rate — 15 frames per second @ 56 kbps -128 kbps; 30 frames per second @ 168 kbps - 4 Mbps
- Video resolution — 720p 1280 x 720 pixels; 4CIF 704 x 576 pixels; FCIF 352 x 288 pixels; QCIF 176 x 144 pixels; 4CIF 704 x 576 pixels for still images (H.261 Annex D); 4SIF 704 x 480 pixels; SIF 352 x 240 pixels; QSIF 176 x 120 pixels; 4SIF 704 x 480 pixels for still images (H.261 Annex D); Up to 1024 x 768 pixels over XGA in H.263
- Remote camera control — H.281 (H.320 - H.323)

Audio

Audio	Band	Bit rate
G.711	300 ÷ 3400 Hz	48/56/64 kbps
G.728	50 ÷ 3400 Hz	16 kbps
G.722	50 ÷ 7000 Hz	48/56/64 kbps
G.722.1	50 ÷ 7000 Hz	24/32 kbps
G.722.1 Annex C	50 ÷ 14000 Hz	24/32/48 kbps
AAC-LD	50 ÷ 14000 Hz	48/56/64 kbps

- Echo cancellation — Full-duplex
- Adaptive post filtering
- Automatic Gain Control (AGC)
- Automatic Noise Suppression

Hi-Band Digital Microphone Pod
- Range — 360°
- Response — 50 ÷ 14000 Hz
- Microphones — 3
- Mute button
- Up to 2 pods in a daisy-chain configuration

External HD Camera
- Resolution — 1280 x 720 pixels
- Presets — 16 presets
- H. angle of view — 7 to 70 degrees
- PAN — ± 100°
- TILT — ± 25°
- Zoom — 10x (optical)

Supported Monitor
- Format — PAL, NTSC, HighDef
- Single, Dual monitor, HighDef
- PIP and PAP function
- 16:9
- Dual Monitor Emulation

Network Interfaces
- Basic version
  Ethernet
  2-Port 10/100BASE-T full-duplex with integrated switch Ethernet — 2 RJ-45
- Optional
  ISDN
  3 BRI with integrated channel aggregator — 3 RJ-45
- Network Module:
  IDC type connector to connect the Xline Network Adapter

Network Protocols
- TELNET, HTTP, SNMP, DNS, DHCP, RTP/RTCP, TCP/UDP, ARP

Network Features
- Differentiated Service (DIFFSERV), IP Precedence, IP Type of Service (ToS), Auto Gatekeeper Discovery, Clever Packets Management (AeCPM)

Audio/Video Interfaces
- Video inputs

VCR	Composite (RCA)
Doc. Cam. 1	S-video (Mini-DIN)
Doc. Cam. 2	S-video (Mini-DIN)
Doc. Cam. 3	Composite (RCA)
XGA In	DVI-I
2xHD	HD-SDI

- Video outputs

Monitor 1	Composite (RCA)
	S-video (Mini-DIN)
Monitor 2	S-video (Mini-DIN) with monitor detect
VCR	Composite (RCA)
XGA Out	2xDVI-I

- Audio inputs

Connection	Level	Connector
1xPod mic. 360°	Dig.	RJ-11 6/6
Aux. mic.	Mic	Stereo jack 3.5 mm
Audio In	Line	RCA
VCR	Line	2 RCA (L/R)

- Audio outputs

Connection	Level	Connector
Monitor 1	Line	2 RCA (L/R)
VCR	Line	2 RCA (L/R)

Auxiliary Interfaces
- Data RS232 — Mini-DIN 8-pin with DB9 adapter
- Diagnostics RS232 — Mini-DIN 8-pin
- VISCA RS232 — Mini-DIN 8-pin supports Canon or Sony, aux PTZ camera
- PC card — 1 PCMCIA, type II for Wi-Fi card

Closed Captioning/Text Chat
- T.140 text chat, available from Web

User Interface
- Multilingual on-screen graphic user interface
- User selectable languages:
  Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Russian, Hungarian, Polish, Finnish, Simplified Chinese, Traditional Chinese, Japanese, Korean
- Infrared remote control for full function control
- Contextual help
- Diagnostics and management functions
- Call progress monitoring
- Supports AMX™ or Crestron™
- Customizable Graphic User Interface
- Web streaming function: UNICAST and MULTICAST compatible with QuickTime™

Multipoint Function (option)
- Integrated MCU — H.320, H.323 and SIP mixed mode

9 participants	@ 256 kbps
8 participants	@ 384 kbps
6 participants	@ 512 kbps
5 participants	@ 768 kbps
4 participants	@ 1 Mbps

- Compatible with analog and mobile networks
- Video coding — H.261, H.263++, H.264
- Audio coding — G.711, G.722, G.722.1, G.728
- Chair control — H.243
- Dial-In/Dial-Out capabilities
- Continuous Presence
- Encryption
- H.239 Dual-video from any site

Encryption
- AES encryption standard H.233, H.234, H.235
- NIST (National Instute of Standards & Technology) certified

Web Management
All the configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft® Internet Explorer™, Netscape Navigator™

Remote Diagnostics and Management

	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	
Error tracking	Yes	Yes	Yes

Integrated Presentation
- Supported applications
  Microsoft® PowerPoint®
- Multimedia support — T.120

Power Supply
- 100-240 Vac 50-60 Hz 1.5 A Max

Dimensions
- VEGA X7

Box	Width	46 cm (18.11")
	Height	23 cm (9.05")
	Depth	6 cm (2.36")
Camera	Width	26 cm (10.23")
	Height	16 cm (6.3")
	Depth	16 cm (6.3")

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